DFW

Docket No.: HI-0049

<u>PATENT</u>

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of Sang Hun SUNG Confirmation No.: 9720

Group Art Unit: 2631

Serial No.: 10/000,346

Filed: December 4, 2001

Customer No.: 34610

For: APPARATUS FOR ESTIMATING PHASE INFORMATION USING MATCHED FILTER IN COMMUNICATION SYSTEM AND METHOD THEREOF

## INFORMATION DISCLOSURE STATEMENT

U.S. Patent and Trademark Office 220 20th Street S. Customer Window Crystal Plaza Two, Lobby, Room 1B03 Arlington, Virginia 22202

Sir:

Pursuant to 37 C.F.R.§ 1.56, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO-1449. One copy of each reference is attached. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the reference(s) be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

Applicants have listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the indicated date. Applicant reserves the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered. This statement should not be construed as a representation that a search has been made, that information cited in the statement is considered to be and/or is material to patentability, or that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith. It is further understood that the Examiner will consider information that was cited or submitted to the U.S. Patent and Trademark Office in a prior application relied on under 35 U.S.C. §120. 1138 OG 37, 38 (May 19, 1992).

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2. This Information Disclosure Statement is being file U.S. filing date AND after the mailing date of the first Offithe mailing date of a Final Rejection OR Notice of Allow closes prosecution in the application. 37 C.F.R. §1.97(c).					on on the merit	s, but before
	a. Disclos	I hereby state that ea sure Statement was first	ch item of info	ormation con nunication fro	tained in this om a foreign pa	Information tent office in

Serial 1	No. 10/0	a counterpart foreign application not more than three months prior to the filing of this
		Information Disclosure Statement. 37 C.F.R. §1.97(e)(1).  b. I hereby state that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. §1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. §1.97(e)(2).
		c. Attached is our check noin the amount of \$180.00 in payment of the fee under 37 C.F.R. \$1.17(p). Please credit or debit Deposit Account No. 16-0607 as needed to ensure consideration of the disclosed information. Two duplicate copies of this paper are attached.
	applica amoun Deposi	This Information Disclosure Statement is being filed after the mailing date of a Final on OR Notice of Allowance OR an action that otherwise closes prosecution in the tion, but on or before payment of the Issue Fee. Attached is our check no in the t of \$180.00 in payment of the fee under 37 C.F.R. §1.17(p). Please credit or debit it Account No. 16-0607 as needed to ensure consideration of the disclosed information. uplicate copies of this paper are attached. 37 C.F.R. §1.97(d).
		a. I hereby state that each item of information contained in this Information Disclosure Statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. §1.97(e)(1).
		b. I hereby state that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. §1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. §1.97(e)(2).
	4. languag	The references were cited in a corresponding foreign application. A non-English ge version of the foreign search report is attached for the Examiner's information.
$\boxtimes$	includi	To the extent necessary, a petition for an extension of time under 37 C.F.R. §1.136 is made. Please charge any shortage in fees due in connection with the filing of this paper, and extension of time fees, to Deposit Account 16-0607 and please credit any excess fees a deposit account.
	pondeno ox 2212	Daniel Y.J./Kim Registration No. 30 186
Teleph Date:	one: (7 Novem	20153-1200 03) 766-3701 ber 11, 2004
rieas	e direct	t all correspondence to Customer Number 34610

LIST OF ART CITED BY APPLICANT				ATTY. DOCKET NO. HI-0049		APPLN. SERIAL NO. 10/000,346		
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(PTO-1449) (NOV 1 2 2004)				FILING DATE December 4, 200	GROUP 2631			
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		*ISSUE DATE			CLASS	SUBCLASS	FILING DATE	
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EXAMINER'S INITIALS	PATENT NO. KR 2000-027043A	DATE 05/15/2000	Korea (A	COUNTRY BSTRACT ONLY)	CLASS	SUBCLASS	Yes	No
OTHER	ART (Including A	uthor, Title, Dat	e, Pertiner	ıt Pages, Publishe	r, Place	of Publication	n, Etc.	)
	Non-English Kor	ean Examination	Report					
EXAMINER			D	ATE CONSIDEREI	D			

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.